

**calreticulin Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF4081a

### Specification

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### calreticulin Antibody (internal region) - Product Information

Application	WB
Primary Accession	<a href="#">P27797</a>
Other Accession	<a href="#">NP_004334.1</a> , <a href="#">811</a> , <a href="#">12317 (mouse)</a> , <a href="#">64202 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	48142

### calreticulin Antibody (internal region) - Additional Information

**Gene ID** 811

#### Other Names

Calreticulin, CRP55, Calregulin, Endoplasmic reticulum resident protein 60, ERp60, HACBP, grp60, CALR, CRTC

#### Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

calreticulin Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

### calreticulin Antibody (internal region) - Protein Information

**Name** CALR ([HGNC:1455](#))

**Synonyms** CRTC

#### Function

Calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in the endoplasmic reticulum (ER) via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER (PubMed:<a href="http://www.uniprot.org/citations/7876246" target="\_blank">7876246</a>). Interacts with

the DNA-binding domain of NR3C1 and mediates its nuclear export (PubMed:<a href="http://www.uniprot.org/citations/11149926" target="\_blank">11149926</a>). Involved in maternal gene expression regulation. May participate in oocyte maturation via the regulation of calcium homeostasis (By similarity). Present in the cortical granules of non-activated oocytes, is exocytosed during the cortical reaction in response to oocyte activation and might participate in the block to polyspermy (By similarity).

#### Cellular Location

Endoplasmic reticulum lumen. Cytoplasm, cytosol. Secreted, extracellular space, extracellular matrix. Cell surface. Sarcoplasmic reticulum lumen {ECO:0000250|UniProtKB:P28491}. Cytoplasmic vesicle, secretory vesicle, Cortical granule {ECO:0000250|UniProtKB:Q8K3H7}. Cytolytic granule. Note=Also found in cell surface (T cells), cytosol and extracellular matrix (PubMed:10358038). During oocyte maturation and after parthenogenetic activation accumulates in cortical granules. In pronuclear and early cleaved embryos localizes weakly to cytoplasm around nucleus and more strongly in the region near the cortex (By similarity). In cortical granules of non-activated oocytes, is exocytosed during the cortical reaction in response to oocyte activation (By similarity). {ECO:0000250|UniProtKB:P28491, ECO:0000250|UniProtKB:Q8K3H7, ECO:0000269|PubMed:8418194}

#### calreticulin Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### calreticulin Antibody (internal region) - Images



EB12387 (0.01 $\mu$ g/ml) staining of Human (A) and Rat (B) Lung lysates (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.

#### calreticulin Antibody (internal region) - References

The polypeptide binding conformation of calreticulin facilitates its cell-surface expression under conditions of endoplasmic reticulum stress. Jeffery E, Peters LR, Raghavan M. The Journal of biological chemistry 2011 Jan 286 (4): 2402-15. PMID: 21075854